

DIEGO MUÑOZ

Full-Stack Developer & Mathematics Expert

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PROFESSIONAL SUMMARY

Competent Systems Engineering student with strong mathematical background and proven track record in competitive programming. Experienced in backend development, database design, and bilingual technical communication. Seeking freelance opportunities to leverage problem-solving skills and technical expertise in real-world projects.

Key Strengths:

- Champion in Programming Olympiads (UdeA 2022)
 - Multiple Math Olympiad winner (2010, 2012, 2014)
 - Bilingual proficiency (English/Spanish) with intermediate Italian
 - 4+ years experience in software development and data analysis
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TECHNICAL SKILLS

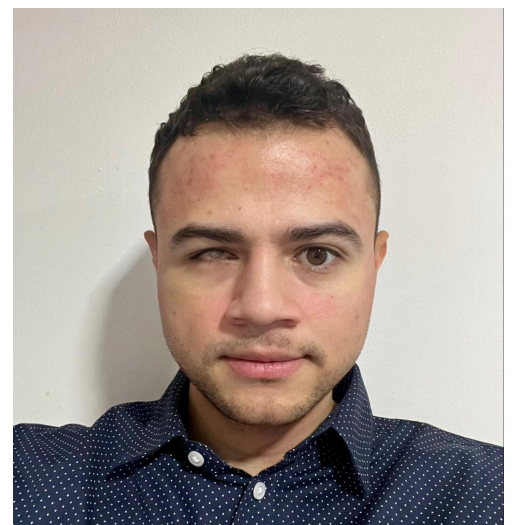
Programming Languages

- **Python** - Advanced (Backend development, data analysis)
- **JavaScript** - Intermediate (Web development, APIs)
- **SQL/Neo4j** - Advanced (Database design and optimization)
- **LaTeX** - Advanced (Academic publishing, document automation)

Technologies & Tools

- **Backend Development:** API design, microservices architecture
- **Database Systems:** Neo4j, relational databases, query optimization
- **Web Development:** Full-stack applications, responsive design
- **Data Analysis:** Mathematical modeling, algorithm implementation
- **Version Control:** Git, collaborative development

Languages



- **Spanish:** Native
 - **English:** Proficient (C1 level)
 - **Italian:** Intermediate (B1 level)
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EDUCATION

Universidad de Antioquia | 2019 - Present

Bachelor of Systems Engineering | GPA: 4.4/5.0

- Specialized in software architecture and database systems
- Active member of competitive programming team

Universidad Nacional de Colombia | 2014 - 2018

Mathematics (Discontinued) | GPA: 4.2/5.0

- Strong foundation in mathematical analysis and problem-solving
- Transferred to Systems Engineering to focus on practical applications

Xpert Group Training Camp | 2021

Software Development Intensive

- Advanced training in modern development practices
 - Project-based learning with real-world applications
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PROFESSIONAL EXPERIENCE

Research Internship - Ontology Based Searcher | 2022 - 2023

Backend Developer

- Developed complete backend architecture for ontology-based search engine
- Designed and optimized Neo4j database queries for complex data relationships
- Implemented REST API endpoints for efficient data retrieval and processing
- Collaborated with research team to translate academic requirements into functional code

Xpert Group | 2021

Software Developer

- Developed computer vision application for product state analysis in retail environments
- Implemented image processing algorithms to determine product condition and placement
- Created automated reporting system for inventory management
- Delivered fully functional prototype within project timeline

Faculty of Engineering Newspaper | 2021 - 2022

Technical Editor & Developer

- Automated academic paper conversion to LaTeX format following journal guidelines
 - Developed web publishing system for faculty journal distribution
 - Reduced publication time by 70% through process automation
 - Maintained consistent formatting standards across all publications
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ACHIEVEMENTS & COMPETITIONS

Programming Competitions

- **Winner - Programming Olympiads UdeA** (2022)
 - Led team to victory in university-wide programming competition
 - Solved complex algorithmic problems under time pressure

Mathematics Competitions

- **School Math Olympiad Winner** (2010, 2012)
 - Consecutive victories demonstrating consistent mathematical excellence
- **Third Phase Qualifier - "Olimpiadas del Conocimiento"** (2014)
 - National competition classifier showcasing problem-solving abilities

Academic Recognition

- **Best Student Award** - Merceditas Gomez Martinez School (2008-2014)
 - **High Academic Performance** - Consistent GPA above 4.0 in both universities
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PROJECTS PORTFOLIO

Ontology-Based Search Engine (2022-2023)

Technologies: Python, Neo4j, REST APIs

- Designed and implemented backend architecture for academic search system
- Created complex database queries for semantic information retrieval
- Developed API endpoints for frontend integration and data processing

Product Analysis Application (2021)

Technologies: Python, Computer Vision, Data Analysis

- Built automated system for retail product state determination
- Implemented image processing algorithms for quality assessment
- Created reporting dashboard for inventory management insights

Academic Publishing Automation (2021-2022)

Technologies: LaTeX, Python, Web Development

- Automated conversion of academic papers to standardized LaTeX format
 - Developed web interface for journal publication and distribution
 - Streamlined editorial workflow reducing manual work by 70%
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CERTIFICATIONS & TRAINING

- **Xpert Group Development Bootcamp** (2021)
 - **Advanced Database Design** - Universidad de Antioquia
 - **Competitive Programming Training** - Universidad de Antioquia
 - **English Proficiency** - Self-assessed C1 level
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AVAILABILITY

- **Full-time availability** for freelance projects
 - **Flexible hours** to accommodate international clients
 - **Remote work experience** with distributed teams
 - **Quick response time** - typically within 2-4 hours during business hours
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REFERENCES

Available upon request

Last updated: July 2025